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(12) **United States Patent**
McConville(10) **Patent No.:** **US 6,300,439 B1**
(45) **Date of Patent:** ***Oct. 9, 2001**(54) **GROUP 15 CONTAINING TRANSITION
METAL CATALYST COMPOUNDS,
CATALYST SYSTEMS AND THEIR USE IN A
POLYMERIZATION PROCESS**(75) **Inventor:** **David H. McConville, Houston, TX
(US)**(73) **Assignee:** **Univation Technologies, LLC,
Houston, TX (US)**(*) **Notice:** Subject to any disclaimer, the term of this
patent is extended or adjusted under 35
U.S.C. 154(b) by 0 days.This patent is subject to a terminal dis-
claimer.(21) **Appl. No.:** **09/435,409**(22) **Filed:** **Nov. 8, 1999**(51) **Int. Cl.⁷** **C08F 4/44**(52) **U.S. Cl.** **526/161; 526/127; 526/159;
526/129; 526/941; 526/943; 526/901; 526/351;
526/352; 526/172**(58) **Field of Search** **526/127, 159,
526/129, 161, 941, 943, 901, 351, 352,
172**(56) **References Cited****U.S. PATENT DOCUMENTS**

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The present invention relates to a Group 15 containing metal catalyst compound having a substituted hydrocarbon leaving group, a catalyst system and a supported catalyst system thereof and to a process for polymerizing olefin(s) utilizing them.

14 Claims, No Drawings